

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A network system for locating a wireless tag within a layer having a plurality of layer units, said network-layer comprising a plurality of independent wireless nodes, each node being included in a layer or respective layer unit for installation inside a building and configured to be wirelessly connectable to at least one other node, such that when said layer or layer units are installed in a layer, said plurality of nodes have a determinable spaced arrangement, and provide overlapping wireless coverage for locating feedback to said tag by reference to said spaced arrangement.

wherein the feedback from said plurality of nodes is used to determine a location of the tag.

2. (Currently amended) A network The system according to claim 1, wherein said layer comprises a floor covering.

3. (Currently amended) A network—The system according to claim 1, wherein said layer comprises a carpet underlay.

4. (Currently amended) A network—The system according to claim 1, wherein said layer units include tiles for covering a floor.

5. (Currently amended) A network—The system according to claim 1, wherein said layer units include tiles for covering a ceiling.

6. (Currently amended) A network—The system according to claim 1, wherein said spaced arrangement comprises a regular pattern of nodes.

7. (Currently amended) A network—The system according to claim 1, wherein each wireless node includes means for receiving a wireless signal and means for transmitting a wireless signal.

8. (Currently amended) A network—The system according to claim 1, wherein each wireless node includes means for determining a range to a neighbouringneighboring wireless mode.

9. (Currently amended) A network—The system according to claim 8, wherein said means for determining a range comprises means for determining a time of arrival of a received signal.

10. (Currently amended) A network—The system according to claim 8, wherein said means for determining a range comprises means for determining a value of signal strength of a received signal.

11-12. (Canceled)

13. (Currently amended) A network—The system according to claim 11-1 further comprising means for generating power for a said wireless node-nodes.

14. (Currently amended) A network or a network element—The system according to claim 13, wherein said means for generating power comprises a piezoelectric crystal.

15. (Currently amended) A network—The system according to claim 11 or a network element according to claim 12-1, further comprising means for receiving power for a said wireless node-nodes

from an external source.

16 (Canceled)

17. (Currently amended) A method of locating a wireless tag within a layer having a plurality of layer units using a network comprising a plurality of independent wireless nodes, each node being included in a layer or respective layer unit installed inside a building, each node being and configured to be wirelessly connectable to at least one other node, the method comprising the acts of:

determining a spaced arrangement of said plurality of wireless nodes; and

determining the location of providing overlapping wireless feedback to said wireless tag from said plurality of wireless nodes with reference to said spaced arrangement; and

determining a location of the tag using the feedback from said plurality of nodes.

18. (Currently amended) A The method according to claim 17, wherein said act of determining said spaced arrangement of said

wireless nodes comprises acts of:

transmitting a first at least one message from a first node  
said first at least one message identifying said first node;  
noting a time of arrival of said first at least one message at  
a second node and transmitting a second at least one message from  
said second node, said second at least one message from said second  
node identifying said first and second nodes, the time of arrival  
of said first at least one message from said first node and a time  
of transmission of said second at least one message from said  
second node.

19. (Currently amended) A-The method according to claim 18,  
further comprising: transmitting a wherein the at least one message  
from said first node includes information identifying the location  
of said first node within said spaced arrangement.

20. (Currently amended) A-The method of operating a wireless  
node included in a layer or respective layer unit installed inside  
a building and configured to be wirelessly connectable to at least  
one other node, the method comprising: according to claim 17,  
further comprising acts of:

co-operating with said at least one other node so as to determine location of said wireless node within a spaced arrangement of wireless nodes; and co-operating with a wireless tag so as to determine location of said wireless tag with reference to said spaced arrangement of wireless nodes.

21. (Currently amended) A computer program readable medium comprising a program of instructions which, when executed by data processing apparatus causes said data processing apparatus to perform the method according to claim 20.

22. (New) The network or a network element according to claim 15, wherein said means for receiving power comprises inductive means.